

STATEMENT OF BASIS

as required by LAC 33:IX.3109, for draft **Louisiana Pollutant Discharge Elimination System Permit No. LA0122718**; **AI 139453; PER20060001** to discharge to waters of the **State of Louisiana** as per LAC 33:IX.2311.

The **permitting authority** for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

- I. THE APPLICANT IS:** St. Martin Parish Government
St. Martin Parish Industrial Park
P.O. Box 9
St. Martinville, LA 70582
- II. PREPARED BY:** Jim Bondy
- DATE PREPARED:** February 14, 2007
- III. PERMIT ACTION:** Issue LPDES permit LA0122718, AI 139453; PER20060001
LPDES application received: May 25, 2006
- IV. FACILITY INFORMATION:**
- A. The application is for the discharge of treated sanitary wastewater from a publicly owned treatment works serving St. Martin Parish Industrial Park, an industrial and commercial subdivision.
- B. The permit application does not indicate the receipt of industrial wastewater.
- C. The facility is located at 1155 Petroleum Parkway in St. Martinville, St. Martin Parish.
- D. The treatment facility consists of an extended aeration package treatment plant with a trash trap, aeration basin, and clarifier. Disinfection is by chlorination.
- E. Outfall 001
- Discharge Location: Latitude 30° 4' 51" North
Longitude 91° 55' 51" West
- Description: treated sanitary wastewater
- Design Capacity: 0.040 MGD
- Type of Flow Measurement which the facility is currently using:
V-Notch Weir

V. RECEIVING WATERS:

The discharge is into local drainage, thence into LaSalle Coulee in segment 060801 of the Vermilion - Teche Basin.

The designated uses and degree of support for Segment 060801 of the Vermilion - Teche Basin are as indicated in the table below^{1/}:

Overall Degree of Support for Segment	Degree of Support of Each Use						
	Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
Partially Supported	Not Supported	Not Supported	Not Supported	N/A	N/A	N/A	Fully Supported

^{1/}The designated uses and degree of support for Segment 060801 of the Vermilion - Teche Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2004 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 060801 of the Vermilion - Teche Basin, is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U. S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated September 29, 2006 from Watson (FWS) to Brown (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

VII. HISTORIC SITES:

The discharge will be from a proposed facility. LDEQ has consulted with the State Historic Preservation Officer (SHPO) in a letter, dated May 31, 2006, to determine whether construction-related activities could potentially affect sites or properties on or eligible for listing on the National Register of Historic Places. SHPO's response letter, dated June 6, 2006, stated that the facility as proposed will have no potential effects.

VIII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:
Local newspaper of general circulation
Office of Environmental Services Public Notice Mailing List

For additional information, contact:

Jim Bondy, Water Permits Division
Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

IX.

PROPOSED PERMIT LIMITS:

Subsegment 060801 of the Vermilion - Teche River Basin is not listed on LDEQ's Final 2004 303(d) list of impaired waterbodies. However, subsegment 060801 was previously listed as impaired for phosphorus, nitrogen, cadmium, lead, organic enrichment/low DO, pathogen indicators, salinity/TDS/chlorides, sulfates, suspended solids/turbidity/siltation, and Carbofuran, for which the below TMDL's have been developed. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional TMDL's and/or water quality studies. The DEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as necessary to achieve compliance with water quality standards.

The 1999 Review and Assessment of the 1987 Vermilion River Watershed TMDL for Dissolved Oxygen, was revised in December 1999, and approved by EPA on April 5, 2001. This TMDL re-established that NPDES permits for individual point sources in the Vermilion Watershed should continue to be issued on the basis of flow rates as follows:

<u>FLOW RATE</u>	<u>PERMIT LIMITS</u>
greater than 25,000 gpd	May - Dec.: 10 mg/l CBOD ₅ /5 mg/l NH ₃ -N/5 mg/l DO
25,000 gpd or less	Jan.- April: 20 mg/l CBOD ₅ /10 mg/l NH ₃ -N/5 mg/l DO secondary limits year round

Therefore, this discharge will be permitted accordingly.

The Vermilion River TMDL for Fecal Coliform was finalized on April 5, 2001, addressing the presence of pathogen indicators in the watershed. As per this TMDL, "...there will be no change in the permit requirements based upon a wasteload allocation resulting from this TMDL."

The Vermilion River TMDL for Sulfate Subsegments 060801 & 060802, finalized on May 23, 2001, established monthly average load limitations for all significant point source dischargers in these subsegments. However, due to a change in the standards for sulfate in subsegment 060801, it was determined that this subsegment was in compliance with the new sulfate standard. Therefore, a limitation for sulfate will not be placed into the permit.

As per the TMDL for TSS, Turbidity, and Siltation for the 15 Subsegments in the Vermilion River Basin, point source loads are so small as to be insignificant, and because effective policies are in place to limit TSS discharges, no specific reductions from point sources are required.

The TMDL for the Pesticide Carbofuran in the Mermentau and Vermilion-Teche River Basins was finalized on March 21, 2002, and states no point sources are known to discharge Carbofuran; therefore, no allocation was given to point source discharges in the Vermilion-Teche River Basin.

As per the February 29, 2000 Delist (Federal Register Notice: Vol. 65, Num. 173, pages 54032-54034, 9/6/2000), assessment of new data and information shows this segment is meeting water quality standards for Phosphorus, Cadmium, and Lead. Therefore, requirements for Total Phosphorus, Total Cadmium, and Total Lead will not be placed in this permit.

As per the October 2000 LA TMDL Delist (Federal Register Notice: Vol. 66, Num. 66, pages 18087-18089, 4/5/2001), assessment of new data and information shows this segment is meeting water quality standards for chlorides, salinity and TDS. Therefore, requirements for these parameters will not be placed in this permit.

Final Effluent Limits:

OUTFALL 001

Final limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Weekly Avg.	Basis
CBOD ₅ May – December January - April	N/A N/A	10 mg/l 20 mg/l	15 mg/l 30 mg/l	Limits are set in accordance with the 1999 Review and Assessment of the 1987 Vermilion River Watershed TMDL for Dissolved Oxygen TMDL for dischargers with flows greater than 25,000 GPD.
TSS year round	N/A	20 mg/l	30 mg/l	Limits are set in accordance with the TMDL for TSS, Turbidity, and Siltation for the 15 Subsegments in the Vermilion River Basin and the Statewide Sanitary Effluent Limitations Policy (SSELP) for sanitary dischargers with flows between 25,000 and 50,000 GPD.
NH ₃ -N May – December January - April	N/A N/A	5 mg/l 10 mg/l	10 mg/l 20 mg/l	Limits are set in accordance with the 1999 Review and Assessment of the 1987 Vermilion River Watershed TMDL for Dissolved Oxygen TMDL for dischargers with flows greater than 25,000 GPD.
Dissolved Oxygen year round	N/A	5 mg/l**	N/A	Limits are set in accordance with the 1999 Review and Assessment of the 1987 Vermilion River Watershed TMDL for Dissolved Oxygen TMDL for dischargers with flows greater than 25,000 GPD.

*Concentration limits are used in accordance with LAC 33:IX.2709.F.1.b which states that mass limitations are not necessary when applicable standards and limitations are expressed in other units of measurement. LAC 33:IX.709.B references LAC 33:IX.711 which express BOD₅ and TSS in terms of concentration.

**This Dissolved Oxygen limit is the lowest allowable average of daily discharges over a calendar month. When monitoring is conducted, the Dissolved Oxygen shall be analyzed immediately, as per 40 CFR 136.3.

Other Effluent Limitations:

1) Fecal Coliform

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5.b.i, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgement in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

2) pH

According to LAC 33:IX.3705.A.1., POTW's must treat to at least secondary levels. Therefore, in accordance with LAC 33:IX.5905.C., the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.

3) Solids and Foam

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

X. PREVIOUS PERMITS:

No previous permits have been issued to this facility.

XI. ENFORCEMENT AND SURVEILLANCE ACTIONS:

A) Inspections

No inspections have been performed at this facility as of February 14, 2007.

B) Compliance and/or Administrative Orders

There have been no compliance or administrative orders issued to this facility as of February 14, 2007.

C) DMR Review

There are no DMRs on file for this facility.

XII. ADDITIONAL INFORMATION:

The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional water quality studies and/or TMDL's. The DEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as requested by the permittee and/or as necessary to achieve compliance with water quality standards. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

At present, the **Monitoring Requirements, Sample Types, and Frequency of Sampling** as shown in the permit are standard for facilities of flows between 0.02 and 0.10 MGD.

<u>Effluent Characteristics</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow	1/week	Measure
CBOD ₅	1/month	Grab
Total Suspended Solids	1/month	Grab
Ammonia-Nitrogen	1/month	Grab
Dissolved Oxygen	1/month	Grab
Fecal Coliform Bacteria	1/month	Grab
pH	1/month	Grab

Pretreatment Requirements

Based upon consultation with LDEQ pretreatment personnel, general pretreatment language will be used due to the lack of either an approved or required pretreatment program.

XIII. TENTATIVE DETERMINATION:

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to issue a new permit for the discharge described in this Statement of Basis.

XIV. REFERENCES:

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy," Louisiana Department of Environmental Quality, 2005.

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Section 305(b) Report," Louisiana Department of Environmental Quality, 1998.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards," Louisiana Department of Environmental Quality, 2004.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program," Louisiana Department of Environmental Quality, 2004.

Statement of Basis

LA0122718; AI 139453; PER20060001

Page 7

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, St. Martin Parish Government, St. Martin Parish Industrial Park, May 25, 2006.